

10590973

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FILE 'HOME' ENTERED AT 12:04:42 ON 04 JAN 2010

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 12:04:49 ON 04 JAN 2010

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

DICTIONARY FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

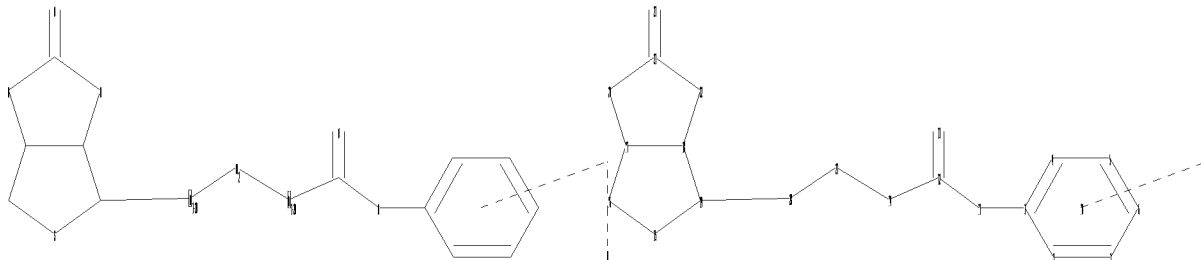
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading H:\STN\10590973\2.str



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chain nodes :
7 8 9 11 12 13 14 23 27 28
ring nodes :
1 2 3 4 5 6 15 16 17 18 19 20 21 22
chain bonds :
3-11 7-8 7-9 11-12 12-13 12-14 14-27 19-28 21-23 27-28
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-19 16-17 17-18 17-20 18-19 18-22
20-21 21-22
exact/norm bonds :
3-11 7-8 7-9 11-12 12-13 12-14 14-27 15-16 15-19 16-17 17-18 17-20
18-19 18-22 19-28 20-21 21-22 21-23 27-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 15 :

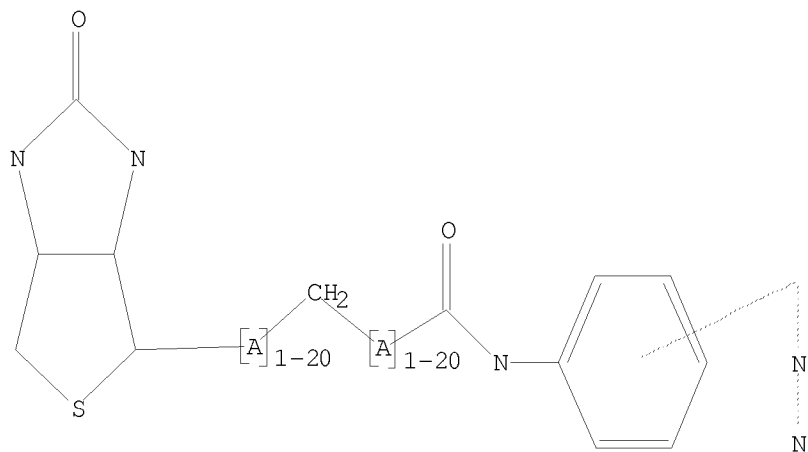
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 12:05:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 88 TO ITERATE

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100.0% PROCESSED 88 ITERATIONS
SEARCH TIME: 00.00.01

19 ANSWERS

L2 19 SEA SSS FUL L1

=>

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chain nodes :
7 8 9 11 20 24 25 28 29 30 31 32 33 34 35 36 37 47
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 18 19
chain bonds :
3-47 7-8 7-9 11-24 11-47 16-25 18-20 24-25 28-29 29-30 31-32 31-33
34-35 36-37
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 13-14 14-15 14-17 15-16 15-19
17-18 18-19
exact/norm bonds :
3-47 7-8 7-9 11-24 11-47 12-13 12-16 13-14 14-15 14-17 15-16 15-19
16-25 17-18 18-19 18-20 24-25 28-29 29-30 31-32 31-33
exact bonds :

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34-35 36-37
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 12 :

G1:[*1-*2],[*3-*4],[*5-*6],[*7-*8]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 24:CLASS 25:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS
33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 47:CLASS

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 13 full
FULL SEARCH INITIATED 12:05:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 383 TO ITERATE

100.0% PROCESSED 383 ITERATIONS 27 ANSWERS
SEARCH TIME: 00.00.01

L4 27 SEA SSS FUL L3

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	382.59	382.81

FILE 'CAPLUS' ENTERED AT 12:05:37 ON 04 JAN 2010
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FILE COVERS 1907 - 4 Jan 2010 VOL 152 ISS 2
FILE LAST UPDATED: 3 Jan 2010 (20100103/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CPlus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 14

L5 12 L4

=> d ibib hitstr 1-12

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L5 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2008:1399333 CAPLUS
DOCUMENT NUMBER: 149:572823
TITLE: Novel hydrazone-based and oxime-based fluorescent and chromophoric/pro-fluorescent and pro-chromophoric reagents and linkers
INVENTOR(S): Schwartz, David A.; Mendoza, Leopoldo
PATENT ASSIGNEE(S): Solulink, Inc., USA
SOURCE: PCT Int. Appl., 93pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

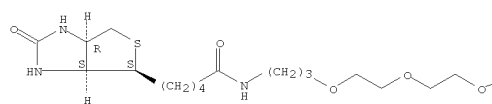
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WO 2008140452	A1	20081120	WO 2007-US11529	20070514
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			WO 2007-US11529	20070514

OTHER SOURCE(S): MARPAT 149:572823
IT 1084743-52-1
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (hydrazone-based and oxime-based fluorescent and chromophoric/pro-fluorescent and pro-chromophoric reagents and linkers)
RN 1084743-52-1 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[15-[4-[[2-[5-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-2-pyridinyl]hydrazinylidene]methyl]phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

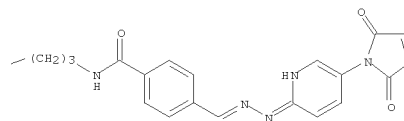
Absolute stereochemistry.
Double bond geometry unknown.

L5 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



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FORMAT

L5 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:1279264 CAPLUS
DOCUMENT NUMBER: 146:23080
TITLE: Method for labelling biological molecules in a biological sample
INVENTOR(S): Bernal-Mendez, Eloy; Laayoun, Ali; Menou, Lionel
PATENT ASSIGNEE(S): Biomerieux, Fr.
SOURCE: PCT Int. Appl., 53pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006129010	A1	20061207	WO 2006-FR1228	20060531
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
FR 2886735	A1	20061208	FR 2005-51452	20050601
AU 2006254045	A1	20061207	AU 2006-254045	20060531
CA 2610021	A1	20061207	CA 2006-2610021	20060531
EP 1886141	A1	20080213	EP 2006-764700	20060531
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2008541751	T	20081127	JP 2008-514145	20060531
US 20090215188	A1	20090827	US 2007-919668	20071031
CN 101233410	A	20080730	CN 2006-80027983	20080130
PRIORITY APPLN. INFO.:			FR 2005-51452	A 20050601
			WO 2006-FR1228	W 20060531

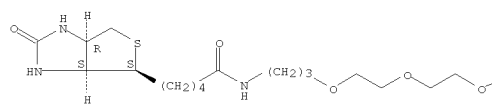
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

IT 475114-69-3
RL: RCT (Reactant); RACT (Reactant or reagent) (method for labeling biol. mols. in biol. sample)
RN 475114-69-3 CAPLUS
CN 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

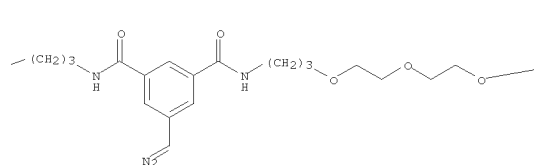
Absolute stereochemistry.

L5 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

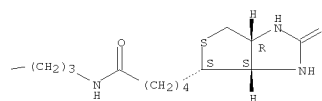
PAGE 1-A



PAGE 1-B



PAGE 1-C



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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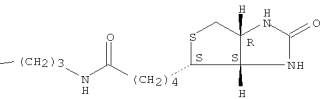
L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006.333374 CAPLUS
DOCUMENT NUMBER: 144:325853
TITLE: Single-step method for labeling and purifying nucleic acids in biological samples
INVENTOR(S): Laayoun, Ali; Menou, Lionel; Ginot, Frederic
PATENT ASSIGNEE(S): Biomerieux, Fr.
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006018572	A2	20060223	WO 2005-FR50601	20050721
WO 2006018572	A3	20060831		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
FR 2873388	A1	20060127	FR 2004-51632	20040723
AU 2005273742	A1	20060223	AU 2005-273742	20050721
EP 1778713	A2	20070502	EP 2005-792074	20050721
EP 1778713	B1	20081231		
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101019801	A	20070815	CN 2005-80030012	20050721
JP 2008507263	T	20080313	JP 2007-521998	20050721
AT 419264	T	20090115	AT 2005-792074	20050721
ES 2320572	T3	20090525	ES 2005-792074	20050721
US 20080233632	A1	20080925	US 2007-658028	20070122
PRIORITY APPLN. INFO.:			FR 2004-51632	A 20040723
			WO 2005-FR50601	W 20050721

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:325853
IT 475114-15-9 475114-69-3
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (single-step method for labeling and purifying nucleic acids in biol. samples)
RN 475114-15-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

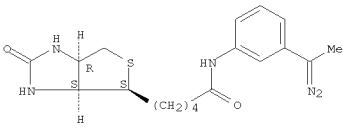
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L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

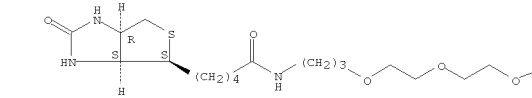
Absolute stereochemistry.



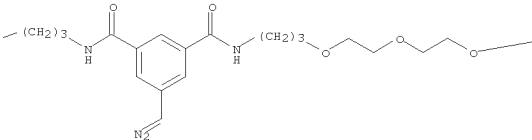
RN 475114-69-3 CAPLUS
CN 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxo-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005.1048472 CAPLUS
DOCUMENT NUMBER: 143:340586
TITLE: Aryldiazoalkane reagents for labeling of nucleic acids
on phosphates and their use in detection of nucleic acids
INVENTOR(S): Laayoun, Ali; Bernal, Mendez Eloy
PATENT ASSIGNEE(S): Biomerieux, Fr.
SOURCE: Fr. Demande, 52 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2868071	A1	20050930	FR 2004-50600	20040326
FR 2868071	B1	20060609		
AU 2005225589	A1	20051006	AU 2005-225589	20050324
CA 2558357	A1	20051006	CA 2005-2558357	20050324
WO 2005092910	A1	20051006	WO 2005-FR50192	20050324
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1727825	A1	20061206	EP 2005-739660	20050324
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1938329	A	20070328	CN 2005-80009785	20050324
JP 2007130024	T	20071101	JP 2007-504455	20050324
US 20080032283	A1	20080207	US 2006-530975	20060828
PRIORITY APPLN. INFO.:			FR 2004-50600	A 20040326
			WO 2005-FR50192	W 20050324

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:340586
IT 865724-06-7P 865724-07-8P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (preparation and anal. use of; aryldiazoalkane reagents for labeling of nucleic acids on phosphates and their use in detection of nucleic acids)
RN 865724-06-7 CAPLUS
CN Butanediamide, N1-[2-[[[2-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]-N4-[3-(1-hydrazinylideneethyl)phenyl]- (CA INDEX NAME)

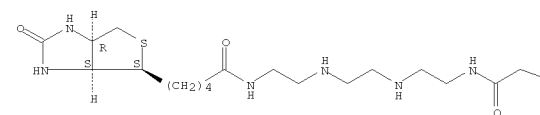
EXR: Michael Barker

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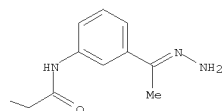
L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



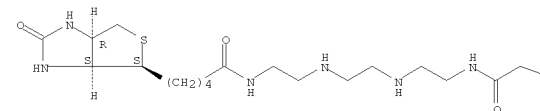
PAGE 1-B



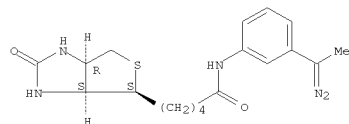
RN 865724-07-8 CAPLUS
CN Butanediamide,
N1-[3-(1-diazoethyl)phenyl]-N4-[2-[[2-[[2-[[5-[(3aS,4S,6aR)-
hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-
oxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



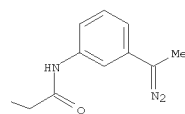
L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
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(1 CITINGS)
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RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

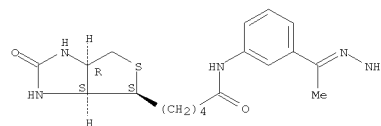
L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B



IT 475114-11-5P 475114-15-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reactions of; aryldiazoalkane reagents for labeling
of
nucleic acids on phosphates and their use in detection of nucleic
acids)
RN 475114-11-5 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

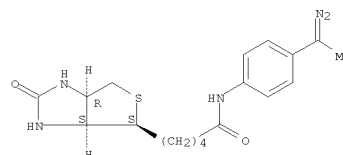


RN 475114-15-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
NAME)

Absolute stereochemistry.

L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:105978 CAPLUS
DOCUMENT NUMBER: 142:368310
TITLE: Biotin-phenyldiazomethane conjugates as labeling
reagents at phosphate in mono and polynucleotides
Bourget, Cecile; Trevisiol, Emmanuelle; Bridon,
Isabelle; Kotera, Mitsuharu; Lhomme, Jean; Laayoun,
Ali
CORPORATE SOURCE: LEDSS-UMR5616 associe au CNRS, BP53, Universite
Joseph
SOURCE: Fourier, Grenoble, 38041, Fr.
Bioorganic & Medicinal Chemistry (2005), 13(5),
1453-1461
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:368310
IT 475114-16-0P 475114-17-1P 475114-18-2P
475114-65-9P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
(Analytical study); PREP (Preparation); USES (Uses)
(biotin-phenyldiazomethane conjugates as labeling reagents at
phosphate in mono and polynucleotides for use in microarray)
RN 475114-16-0 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
NAME)

Absolute stereochemistry.



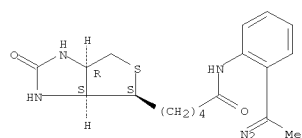
RN 475114-17-1 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
NAME)

Absolute stereochemistry.

EXR: Michael Barker

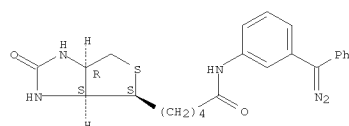
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L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



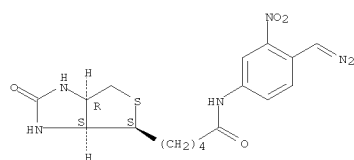
RN 475114-18-2 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



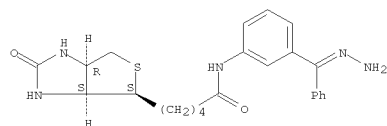
RN 475114-65-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



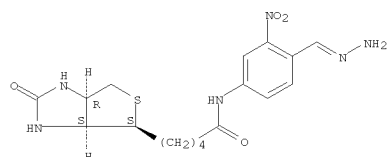
IT 475114-12-6P 475114-13-7P 475114-14-8P
475114-64-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



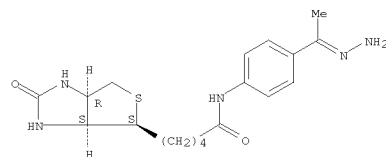
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L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
(Reactant or reagent)

(biotin-phenyldiazomethane conjugates as labeling reagents at phosphate in mono and polynucleotides for use in microarray)

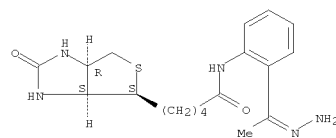
RN 475114-12-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-hydrazinylidenemethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-13-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylidenemethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-14-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(hydrazinylidenemethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

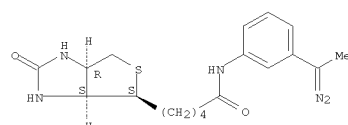
Absolute stereochemistry.
Double bond geometry unknown.

L5 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:714486 CAPLUS
DOCUMENT NUMBER: 140:351231
TITLE: Universal Labeling Chemistry for Nucleic Acid Detection on DNA-Arrays
AUTHOR(S): Bernal-Mendez, E.; Tora, C.; Sothier, I.; Kotera, M.; Troesch, A.; Laayoun, A.
CORPORATE SOURCE: BioMerieux, Advanced Technology, Marcy l'Etoile, F-69280, Fr.
SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 1647-1649
CODEN: NNNAFY; ISSN: 1525-7770
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 475114-15-9
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (universal labeling chemical for nucleic acid detection on DNA-arrays)
RN 475114-15-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



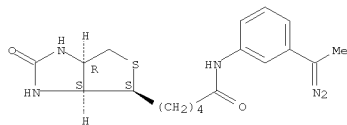
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(7 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

EXR: Michael Barker

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L5 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:714244 CAPLUS
 DOCUMENT NUMBER: 140:351230
 TITLE: Labeling During Cleavage of Nucleic Acids for Their Detection on DNA Chips
 AUTHOR(S): Laayoun, A.; Sothier, I.; Menou, L.; Bernal-Mendez, E.; Kotera, M.; Bourget, C.; Trevisiol, E.; Lhomme, J.; Troesch, A.
 CORPORATE SOURCE: BioMerieux, Advanced Technology, Marcy l'Etoile, F-69280, Fr.
 SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 649-652
 CODEN: NNNAFY; ISSN: 1525-7770
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 475114-15-9, meta-BioPMDAM
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (Labeling during cleavage of nucleic acids for their detection on DNA chips)
 RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



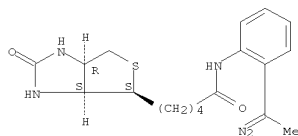
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:869122 CAPLUS
 DOCUMENT NUMBER: 137:364361
 TITLE: Methods for fragmenting and labeling nucleic acids for diagnosis of diseases
 INVENTOR(S): Bourget, Cecile; Kotera, Mitsuharu; Lhomme, Jean; Trevisiol, Emmanuelle; Laayoun, Ali; Tora, Christelle;
 PATENT ASSIGNEE(S): Sothier, Isabelle
 SOURCE: Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
 PCT Int. Appl., 161 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

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WO 2002090584	A2	20021114	WO 2002-FR1542	20020503
WO 2002090584	A3	20030925		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2824335	A1	20021108	FR 2001-6039	20010504
CA 2444926	A1	20021114	CA 2002-2444926	20020503
AU 2002313026	A1	20021118	AU 2002-313026	20020503
AU 2002313026	B2	20070628		
US 20030143555	A1	20030731	US 2002-137460	20020503
US 7060441	B2	20060613		
EP 1383925	A2	20040128	EP 2002-738211	20020503
EP 1383925	B1	20060920		
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CN 1639356	A	20050713	CN 2002-811492	20020503
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AT 340269	T	20061015	AT 2002-738211	20020503
ES 2272723	T3	20070501	ES 2002-738211	20020503
HK 1062033	A1	20070427	HK 2004-105111	20040713
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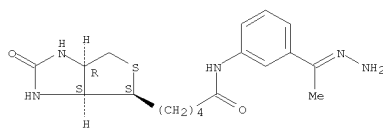
L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 137:364361
 IT 475114-17-1P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (methods for fragmenting and labeling nucleic acids for diagnosis of diseases)
 RN 475114-17-1 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



IT 475114-11-5P 475114-12-6P 475114-13-7P
 475114-14-8P 475114-15-9P 475114-16-0P
 475114-18-2P 475114-27-3P 475114-28-4P
 475114-31-9P 475114-38-6P 475114-41-1P
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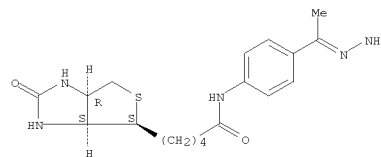
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (methods for fragmenting and labeling nucleic acids for diagnosis of diseases)
 RN 475114-11-5 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

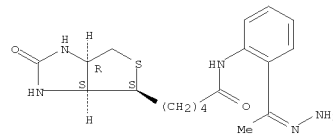
RN 475114-12-6 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,

EXR: Michael Barker

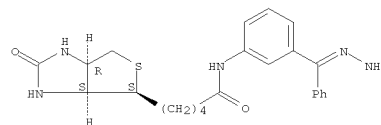
L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

RN 475114-13-7 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

RN 475114-14-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

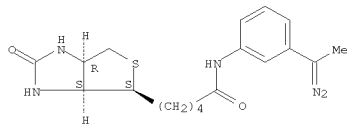
Absolute stereochemistry.
Double bond geometry unknown.

RN 475114-15-9 CAPLUS

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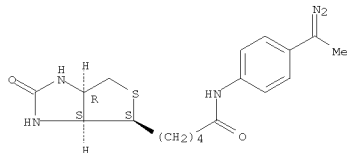
L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



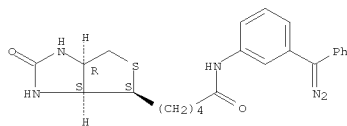
RN 475114-16-0 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



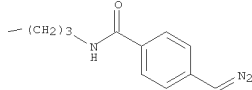
RN 475114-18-2 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

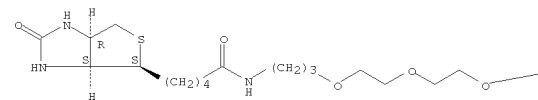
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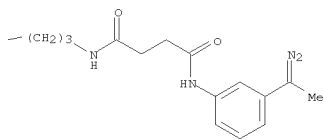
RN 475114-31-9 CAPLUS
 CN Butanediamide,
 N1-[3-(1-diazoethyl)phenyl]-N4-[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RN 475114-38-6 CAPLUS
 CN 3,6,9,12-Tetraoxa-15-azaicosanamide,
 N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

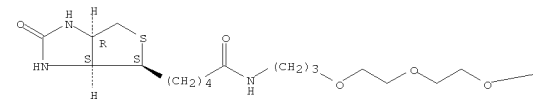
Absolute stereochemistry.

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

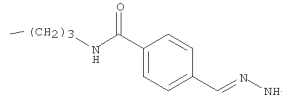
RN 475114-27-3 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[15-[4-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A



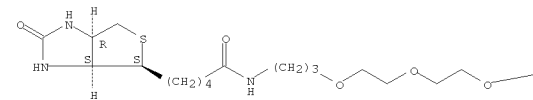
PAGE 1-B



RN 475114-28-4 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[15-[4-(diazomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

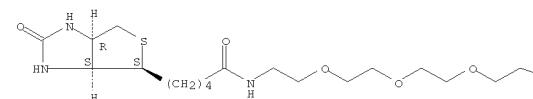
Absolute stereochemistry.

PAGE 1-A

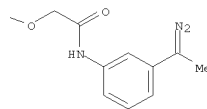


L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A



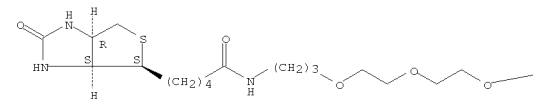
PAGE 1-B



RN 475114-41-1 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[15-[4-(1-hydrazonoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A

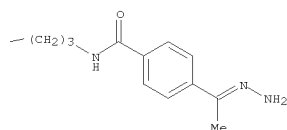


EXR: Michael Barker

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L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

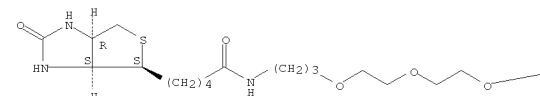
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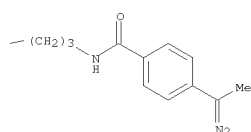
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N-[15-[4-(1-diazoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



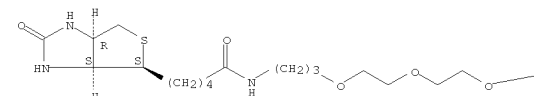
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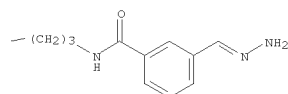
RN 475114-45-5 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[3-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



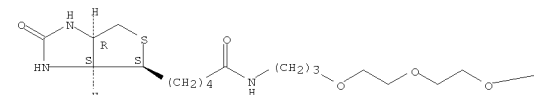
PAGE 1-B



RN 475114-46-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[3-(diazomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

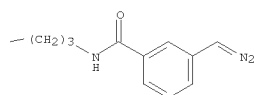
Absolute stereochemistry.

PAGE 1-A



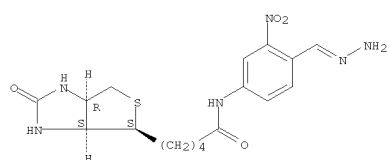
L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B



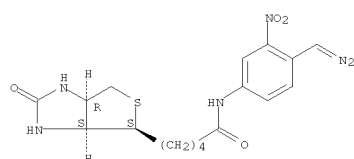
RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-65-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

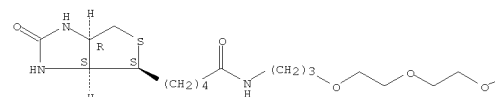


RN 475114-69-3 CAPLUS
CN 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-

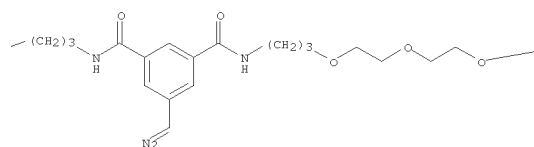
L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

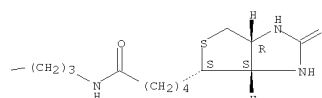
PAGE 1-A



PAGE 1-B



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RN 475270-58-7 CAPLUS
CN 3,6,9,12-Tetraoxa-15-azaicosanamide,
20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-N-[3-(1-hydrazinylideneethyl)phenyl]-16-oxo- (CA INDEX NAME)

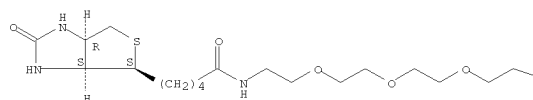
Absolute stereochemistry.
Double bond geometry unknown.

EXR: Michael Barker

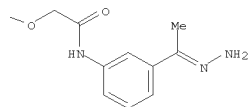
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L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

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PAGE 1-B



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(4 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:868900 CAPLUS
DOCUMENT NUMBER: 137:371372
TITLE: Indicator dyes, their production and their use in detecting biological molecules
INVENTOR(S): Bourget, Cecile; Lhomme, Jean; Laayoun, Ali; Kotera, Mitsuharu; Trevisiol, Emmanuelle; Menou, Lionel; Bernal Mendez, Eloy
PATENT ASSIGNEE(S): Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
SOURCE: PCT Int. Appl., 219 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090319	A1	20021114	WO 2002-FR1543	20020503
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2824323	A1	20021108	FR 2001-6040	20010504
FR 2824323	B1	20080425		
CA 2444918	A1	20021114	CA 2002-2444918	20020503
AU 2002314227	A1	20021118	AU 2002-314227	20020503
AU 2002314227	B2	20080320		
US 20030186448	A1	20031002	US 2002-137454	20020503
US 7338805	B2	20080304		
EP 1383732	A1	20040128	EP 2002-740788	20020503
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CN 1518536	A	20040804	CN 2002-812490	20020503
CN 100509761	C	20090708		
JP 2005502027	T	20050120	JP 2002-587401	20020503
JP 2009137954	A	20090625	JP 2008-301646	20081126
PRIORITY APPLN. INFO.:				A 20010504
				US 2001-310241P P 20010807
				JP 2002-587401 A3 20020503
				WO 2002-FR1543 W 20020503

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 137:371372
IT 475114-11-5P 475114-12-6P 475114-13-7P
475114-14-8P 475114-27-3P 475114-41-1P

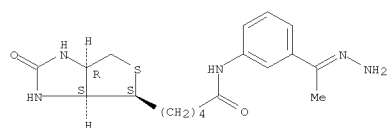
L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-45-5P 475114-64-8P 475114-69-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);

RACT (Reactant or reagent)
(intermediate; in prodn. of indicator dyes for biomols. and nucleic acids)

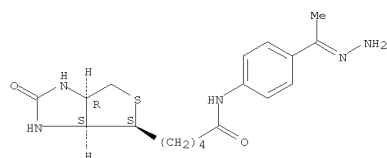
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CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-12-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

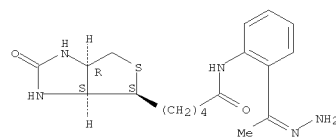
Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-13-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

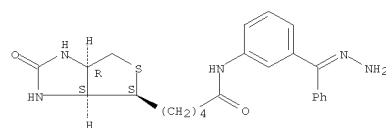
Absolute stereochemistry.
Double bond geometry unknown.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 475114-14-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(hydrazinylidenephénylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

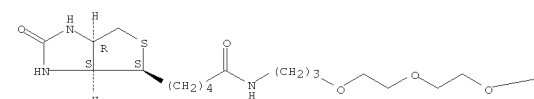
Absolute stereochemistry.
Double bond geometry unknown.



RN 475114-27-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[4-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxo-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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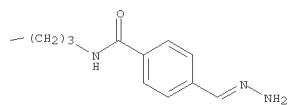


EXR: Michael Barker

10590973

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

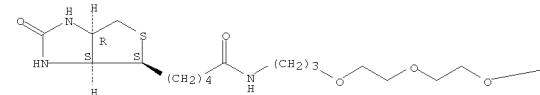
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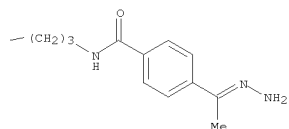
RN 475114-41-1 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[(15-[4-(1-hydrazonoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl)hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI)] (CA INDEX NAME)Absolute stereochemistry.
Double bond geometry unknown.

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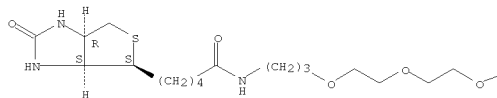
RN 475114-45-5 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[(15-[3-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl)hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI)] (CA INDEX NAME)

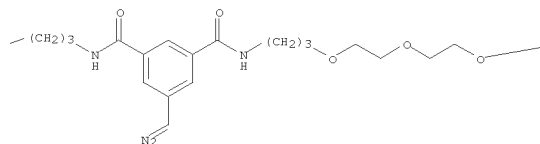
Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

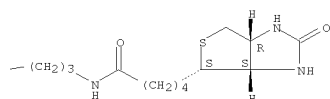
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IT 475114-15-9P 475114-16-0P 475114-17-1P

475114-18-2P 475114-28-4P 475114-31-9P

475114-38-6P 475114-42-2P 475114-46-6P

475114-65-9P

RL: IMP (Industrial manufacture); USES (Technical or engineered material use); PREP (Preparation); USES (Uses)
(production of indicator dyes for biomols. and nucleic acids)

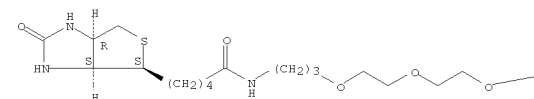
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CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

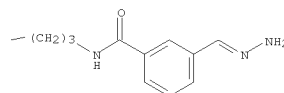
Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
Double bond geometry unknown.

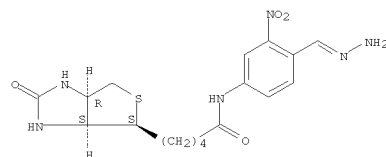
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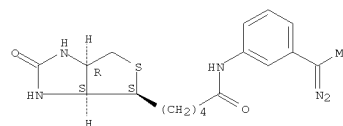
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)Absolute stereochemistry.
Double bond geometry unknown.

RN 475114-69-3 CAPLUS

CN 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

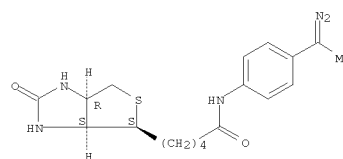
L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 475114-16-0 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

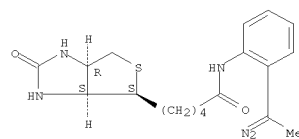
Absolute stereochemistry.



RN 475114-17-1 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 475114-18-2 CAPLUS

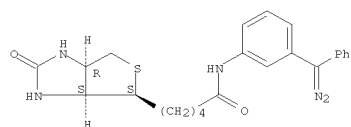
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

EXR: Michael Barker

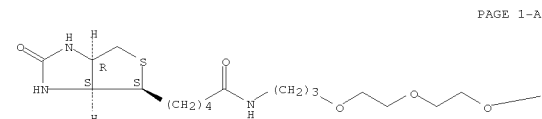
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L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

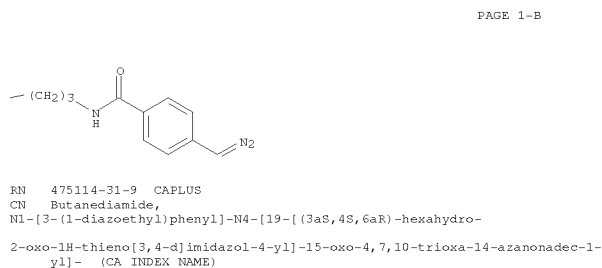


RN 475114-28-4 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[4-(diazomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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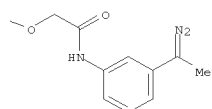


RN 475114-31-9 CAPLUS
CN Butanediamide,
N-[3-(1-diazoethyl)phenyl]-N4-[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

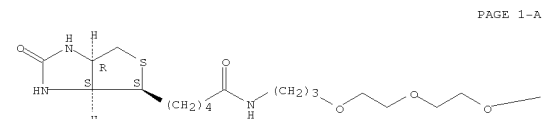
L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

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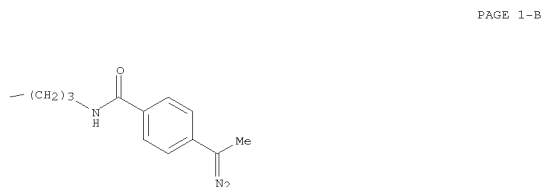


RN 475114-42-2 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[4-(1-diazoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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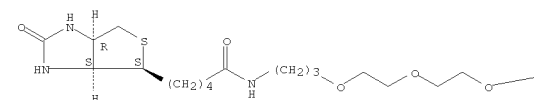
PAGE 1-B

RN 475114-46-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[3-(diazomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

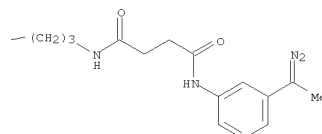
Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

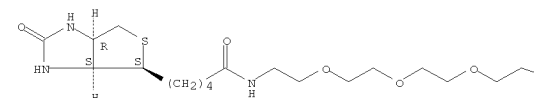


RN 475114-38-6 CAPLUS
CN 3,6,9,12-Tetraoxa-15-azaicosanamide,

N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

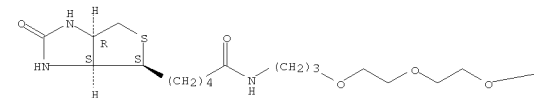
Absolute stereochemistry.

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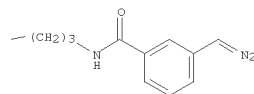


L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

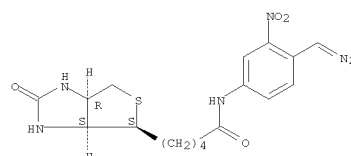


PAGE 1-B



RN 475114-65-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



IT 475114-24-0
RL: TEM (Technical or engineered material use); USES (Uses)
(production of indicator dyes for biomols. and nucleic acids)

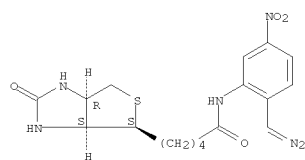
RN 475114-24-0 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(diazomethyl)-5-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

EXR: Michael Barker

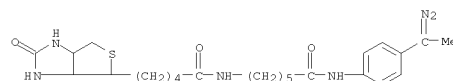
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L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

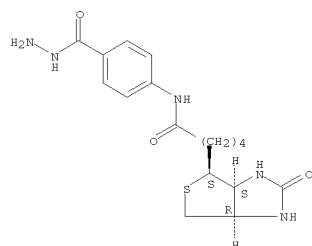
L5 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:745161 CAPLUS
DOCUMENT NUMBER: 123:192722
ORIGINAL REFERENCE NO.: 123:34197a,34200a
TITLE: Fluorescence detection of DNA using a novel peroxidase substrate, 4-(4-hydroxyphenylcarbamoyl)butanoic acid
AUTHOR(S): Shiga, Masanobu; Sasamoto, Kazumi; Aoyama, Masaaki; Takagi, Makoto; Ueno, Keliyu
CORPORATE SOURCE: Dojindo Laboratories, Tabaru Mashiki, Kumamoto, 861-22, Japan
SOURCE: Analytical Sciences (1995), 11(4), 591-5
CODEN: ANSCEN; ISSN: 0910-6340
PUBLISHER: Japan Society for Analytical Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 151261-26-6
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(Fluorescence detection of DNA using a novel peroxidase substrate, 4-(4-hydroxyphenylcarbamoyl)butanoic acid)
RN 151261-26-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[[4-(1-diazoethyl)phenyl]imino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

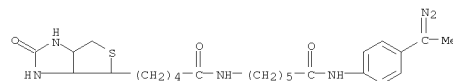
L5 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:197115 CAPLUS
DOCUMENT NUMBER: 122:27005
ORIGINAL REFERENCE NO.: 122:5253a,5256a
TITLE: Detection of oxidation products in individual neurons by fluorescence microscopy
AUTHOR(S): Harris, Marni E.; Carney, John M.; Hua, Duy H.; Leadle, Robert A.
CORPORATE SOURCE: College of Medicine, University of Kentucky, Lexington, KY, 40536-0084, USA
SOURCE: Experimental Neurology (1994), 129(1), 95-102
CODEN: EXNEAC; ISSN: 0014-4886
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 159661-00-4
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(detection of oxidation products in individual neurons by fluorescence microscopy)
RN 159661-00-4 CAPLUS
CN Benzoic acid, 4-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-, hydrazide, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



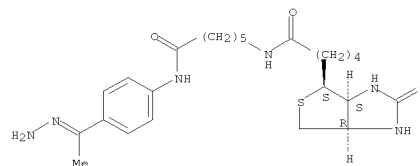
OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD
(9 CITINGS)

L5 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:644871 CAPLUS
DOCUMENT NUMBER: 119:244871
ORIGINAL REFERENCE NO.: 119:43563a,43566a
TITLE: Synthesis of a novel biotin derivative that bears a diazo group as the reactive site
AUTHOR(S): Shiga, Masanobu; He, Pingang; Sagara, Fumio; Ueno, Keihei; Sasamoto, Kazumi
CORPORATE SOURCE: Dojindo Lab., Kumamoto, 861-22, Japan
SOURCE: Analytical Sciences (1993), 9(4), 553-6
CODEN: ANSCEN; ISSN: 0910-6340
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 119:244871
IT 151261-26-6P
RL: PREP (Preparation)
(preparation and DNA labeling by)
RN 151261-26-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[[4-(1-diazoethyl)phenyl]imino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)



IT 151261-25-5P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
RN 151261-25-5 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[[4-(1-hydrazonoethyl)phenyl]amino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

EXR: Michael Barker

10590973

L5 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

EXR: Michael Barker

10590973

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 11:50:22 ON 04 JAN 2010

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STRUCTURE FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

DICTIONARY FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

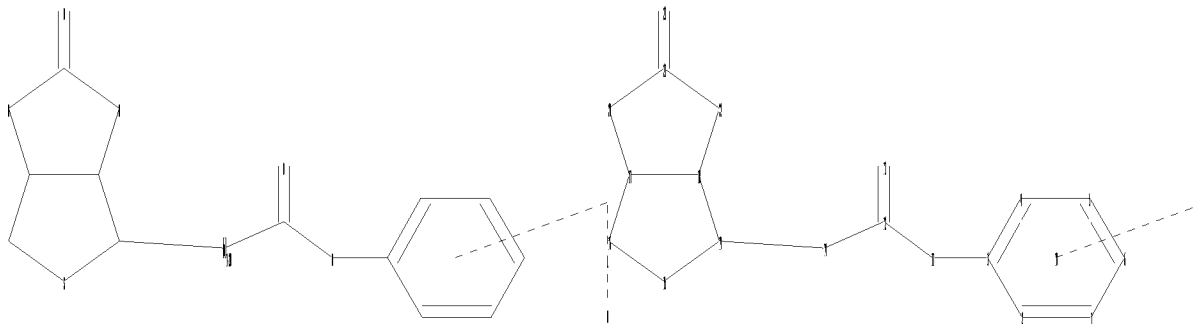
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading H:\STN\10590973\1.str



EXR: Michael Barker

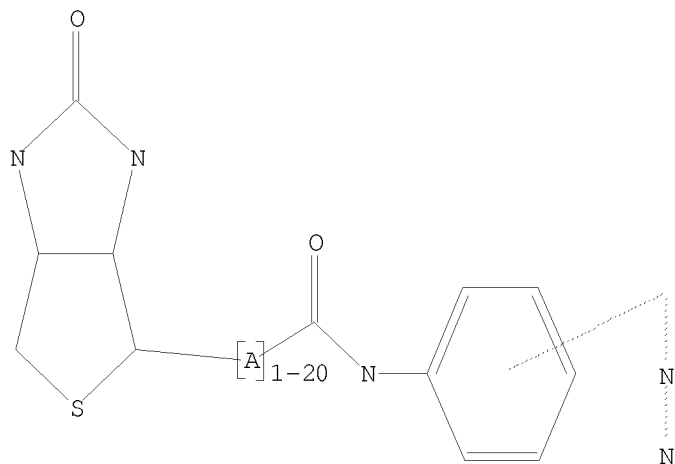
10590973

chain nodes :
7 8 9 11 12 13 14 23
ring nodes :
1 2 3 4 5 6 15 16 17 18 19 20 21 22
chain bonds :
3-11 7-8 7-9 11-12 12-13 12-14 14-19 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-19 16-17 17-18 17-20 18-19 18-22
20-21 21-22
exact/norm bonds :
3-11 7-8 7-9 11-12 12-13 12-14 14-19 15-16 15-19 16-17 17-18 17-20
18-19 18-22 20-21 21-22 21-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 15 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 11:50:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 88 TO ITERATE

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100.0% PROCESSED 88 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

L2 18 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

191.54

191.76

FILE 'CAPLUS' ENTERED AT 11:50:42 ON 04 JAN 2010

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FILE COVERS 1907 - 4 Jan 2010 VOL 152 ISS 2

FILE LAST UPDATED: 3 Jan 2010 (20100103/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3 10 L2

=> d ibib hitstr 1-10

EXR: Michael Barker

10590973

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006.333374 CAPLUS
DOCUMENT NUMBER: 144:325853
TITLE: Single-step method for labeling and purifying nucleic acids in biological samples
INVENTOR(S): Laayoun, Ali; Menou, Lionel; Ginot, Frederic
PATENT ASSIGNEE(S): Biomerieux, Fr.
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006018572	A2	20060223	WO 2005-FR50601	20050721
WO 2006018572	A3	20060831		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CM, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
FR 2873388	A1	20060127	FR 2004-51632	20040723
AU 2005273742	A1	20060223	AU 2005-273742	20050721
EP 1778713	A2	20070502	EP 2005-792074	20050721
EP 1778713	B1	20081231		
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101019801	A	20070815	CN 2005-80030012	20050721
JP 20080507263	T	20080313	JP 2007-521998	20050721
AT 419264	T	20090115	AT 2005-792074	20050721
ES 2320572	T3	20090525	ES 2005-792074	20050721
US 20080233632	A1	20080925	US 2007-658028	20070122
PRIORITY APPLN. INFO.:			FR 2004-51632	A 20040723
			WO 2005-FR50601	W 20050721

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:325853
IT 475114-15-9
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (single-step method for labeling and purifying nucleic acids in biol. samples)
RN 475114-15-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005.1048472 CAPLUS
DOCUMENT NUMBER: 143:340586
TITLE: Aryldiazoalkane reagents for labeling of nucleic acids
on phosphates and their use in detection of nucleic acids
INVENTOR(S): Laayoun, Ali; Bernal, Mendez Eloy
PATENT ASSIGNEE(S): Biomerieux, Fr.
SOURCE: Fr. Demande, 52 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2868071	A1	20050930	FR 2004-50600	20040326
FR 2868071	B1	20060609		
AU 2005225589	A1	20051006	AU 2005-225589	20050324
CA 2558357	A1	20051006	CA 2005-2558357	20050324
WO 2005092910	A1	20051006	WO 2005-FR50192	20050324
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CM, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KN, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, GU, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
EP 1727825	A1	20061206	EP 2005-739660	20050324
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1938329	A	20070328	CN 2005-80009785	20050324
JP 2007110024	T	20071101	JP 2005-504455	20050724
US 2008032283	A1	20080207	US 2005-80009785	20060828
PRIORITY APPLN. INFO.:			FR 2004-50600	A 20040326
			WO 2005-FR50192	W 20050324

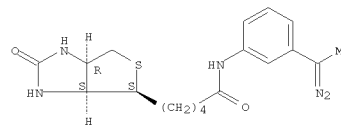
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:340586
IT 865724-06-7P 865724-07-8P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (preparation and anal. use of; aryldiazoalkane reagents for labeling of nucleic acids on phosphates and their use in detection of nucleic acids)
RN 865724-06-7 CAPLUS
CN Butanediamide, N1-[2-[[[2-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]-N4-[3-(1-hydrazinylideneethyl)phenyl]- (CA INDEX NAME)

INSTANT

EXR: Michael Barker

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

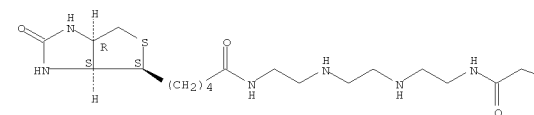
Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

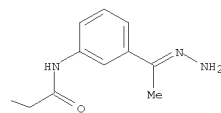
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L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

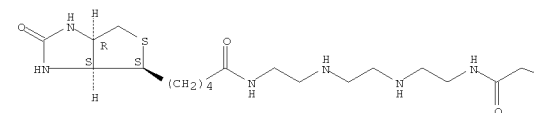
PAGE 1-B



RN 865724-07-8 CAPLUS
CN Butanediamide,
N1-[3-(1-diazoethyl)phenyl]-N4-[2-[[[2-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

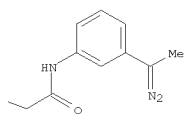
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10590973

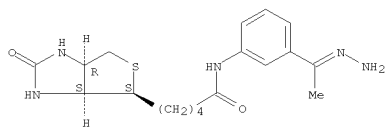
L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B



IT 475114-11-5P 475114-15-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 of preparation and reactions of; aryldiazoalkane reagents for labeling
 nucleic acids on phosphates and their use in detection of nucleic
 acids)
 RN 475114-11-5 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

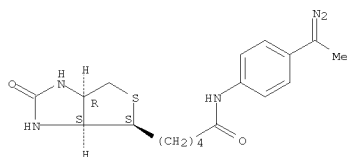
Absolute stereochemistry.

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:105978 CAPLUS
 DOCUMENT NUMBER: 142:368310
 TITLE: Biotin-phenyldiazomethane conjugates as labeling
 reagents at phosphate in mono and polynucleotides
 Bourget, Cecile; Trevisiol, Emmanuelle; Bridon,
 Isabelle; Kotera, Mitsuharu; Lhomme, Jean; Laayoun,
 Ali
 CORPORATE SOURCE: LEDSS-UMR5616 associe au CNRS, BP53, Universite
 Joseph
 SOURCE: Fourier, Grenoble, 38041, Fr.
 Bioorganic & Medicinal Chemistry (2005), 13(5),
 1453-1461
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:368310
 IT 475114-16-0P 475114-17-1P 475114-18-2P
 475114-65-9P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
 (Analytical study); PREP (Preparation); USES (Uses)
 (biotin-phenyldiazomethane conjugates as labeling reagents at
 phosphate in mono and polynucleotides for use in microarray)

RN 475114-16-0 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

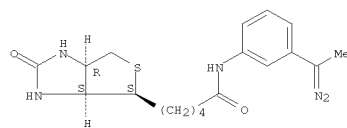
Absolute stereochemistry.



RN 475114-17-1 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

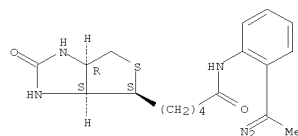
Absolute stereochemistry.

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



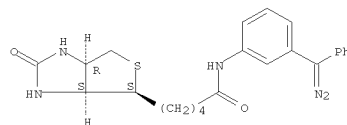
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 (1 CITINGS)
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
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L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



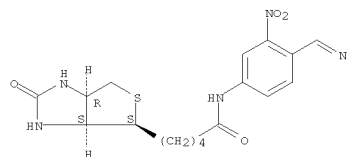
RN 475114-18-2 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

Absolute stereochemistry.



RN 475114-65-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

Absolute stereochemistry.



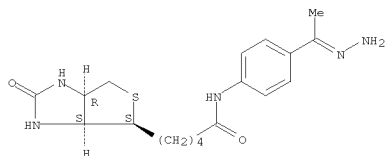
IT 475114-12-6P 475114-13-7P 475114-14-8P
 475114-64-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 of biotin-phenyldiazomethane conjugates as labeling reagents at
 phosphate
 in mono and polynucleotides for use in microarray)

EXR: Michael Barker

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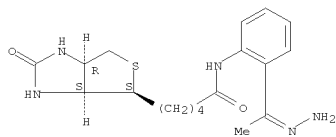
L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 RN 475114-12-6 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-13-7 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

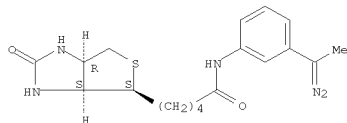


RN 475114-14-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(hydrazinylidenephnylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

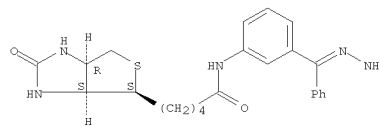
L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:714486 CAPLUS
 DOCUMENT NUMBER: 140:351231
 TITLE: Universal Labeling Chemistry for Nucleic Acid Detection on DNA-Arrays
 AUTHOR(S): Bernal-Mendez, E.; Tora, C.; Sothier, I.; Kotera, M.; Troesch, A.; Laayoun, A.
 CORPORATE SOURCE: BioMerieux, Advanced Technology, Marcy l'Etoile, F-69280, Fr.
 SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 1647-1649
 CODEN: NNNAFY; ISSN: 1525-7770
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 475114-15-9
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (universal labeling chemical for nucleic acid detection on DNA-arrays)
 RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



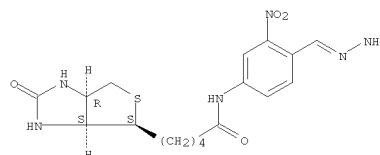
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L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 475114-64-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

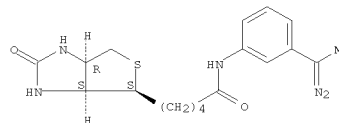
Absolute stereochemistry.
 Double bond geometry unknown.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
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L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:714244 CAPLUS
 DOCUMENT NUMBER: 140:351230
 TITLE: Labeling During Cleavage of Nucleic Acids for Their Detection on DNA Chips
 AUTHOR(S): Laayoun, A.; Sothier, I.; Menou, L.; Bernal-Mendez, E.; Kotera, M.; Bourget, C.; Trevisiol, E.; Lhomme, J.; Troesch, A.
 CORPORATE SOURCE: BioMerieux, Advanced Technology, Marcy l'Etoile, F-69280, Fr.
 SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 649-652
 CODEN: NNNAFY; ISSN: 1525-7770
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 475114-15-9, meta-BioPMDAM
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (labeling during cleavage of nucleic acids for their detection on DNA chips)
 RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
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 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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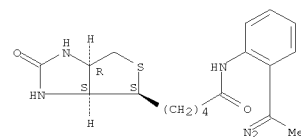
10590973

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:869122 CAPLUS
 DOCUMENT NUMBER: 137:364361
 TITLE: Methods for fragmenting and labeling nucleic acids for
 diagnosis of diseases
 INVENTOR(S): Bourget, Cecile; Kotera, Mitsuharu; Lhomme, Jean; Trevisiol, Emmanuelle; Laayoun, Ali; Tora, Christelle;
 Sothier, Isabelle
 PATENT ASSIGNEE(S): Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
 SOURCE: PCT Int. Appl., 161 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090584	A2	20021114	WO 2002-FR1542	20020503
WO 2002090584	A3	20030925		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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CA 2444926	A1	20021114	CA 2002-2444926	20020503
AU 2002313026	A1	20021118	AU 2002-313026	20020503
AU 2002313026	B2	20070628		
US 20030143555	A1	20030731	US 2002-137460	20020503
US 7060441	B2	20060613		
EP 1383925	A2	20040128	EP 2002-738211	20020503
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JP 2004527258	T	20040909	JP 2002-587643	20020503
CN 1639356	A	20050713	CN 2002-811492	20020503
CN 1325659	C	20070711		
AT 340269	T	20061015	AT 2002-738211	20020503
ES 2272723	T3	20070501	ES 2002-738211	20020503
HK 1062033	A1	20070427	HK 2004-105111	20040713
PRIORITY APPLN. INFO.:			FR 2001-6039	A 20010504
			US 2001-310273P	P 20010807
			WO 2002-FR1542	W 20020503

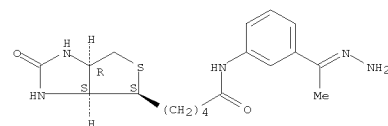
L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 137:364361
 IT 475114-17-1P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (methods for fragmenting and labeling nucleic acids for diagnosis of diseases)
 RN 475114-17-1 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



IT 475114-11-5P 475114-12-6P 475114-13-7P
 475114-14-8P 475114-15-9P 475114-16-0P
 475114-18-2P 475114-38-6P 475114-64-8P
 475114-65-9P 475270-58-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (methods for fragmenting and labeling nucleic acids for diagnosis of diseases)
 RN 475114-11-5 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

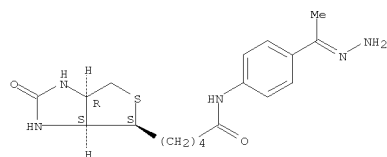
Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-12-6 CAPLUS

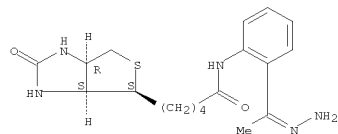
L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
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Absolute stereochemistry.
 Double bond geometry unknown.



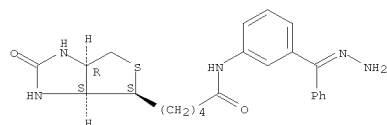
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Absolute stereochemistry.
 Double bond geometry unknown.



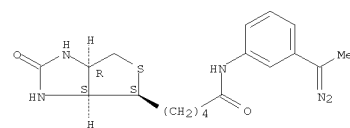
RN 475114-14-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



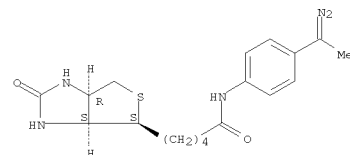
L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



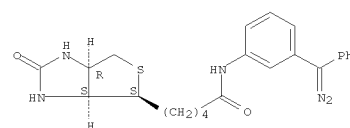
RN 475114-16-0 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 475114-18-2 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



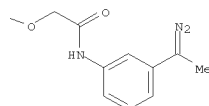
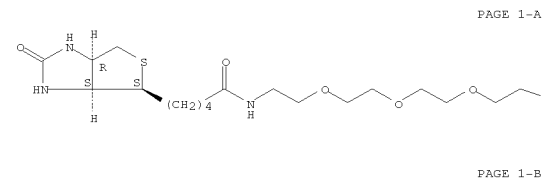
RN 475114-38-6 CAPLUS
 CN 3,6,9,12-Tetraoxa-15-azaicosanamide,

EXR: Michael Barker

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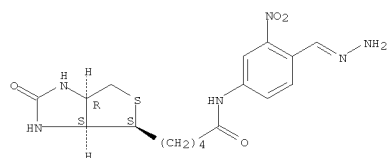
L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 RN 475114-65-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 475114-64-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
 (3aS,4S,6aR)- (CA INDEX NAME)

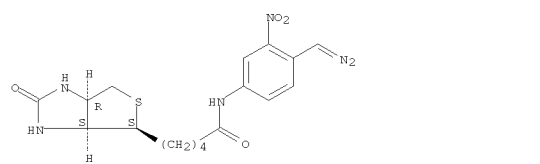
Absolute stereochemistry.
 Double bond geometry unknown.



L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 REFERENCE COUNT: 2 (4 CITINGS)
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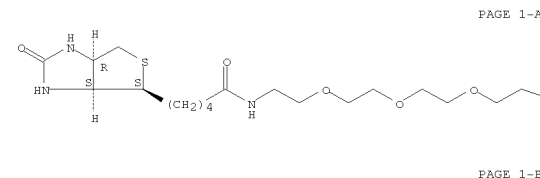
L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 RN 475114-65-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 475270-58-7 CAPLUS
 CN 3,6,9,12-Tetraoxa-15-azaicosanamide,
 20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-N-[3-(1-hydrazinylideneethyl)phenyl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:868900 CAPLUS
 DOCUMENT NUMBER: 137:371372
 TITLE: Indicator dyes, their production and their use in detecting biological molecules
 INVENTOR(S): Bourget, Cecile; Lhomme, Jean; Laayoun, Ali; Kotera, Mitsuharu; Trevisiol, Emmanuelle; Menou, Lionel; Bernal Mendez, Eloy
 PATENT ASSIGNEE(S): Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
 SOURCE: PCT Int. Appl., 219 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090319	A1	20021114	WO 2002-FR1543	20020503
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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FR 2824323	B1	20080425		
CA 2444918	A1	20021114	CA 2002-2444918	20020503
AU 2002314227	A1	20021118	AU 2002-314227	20020503
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US 20030186448	A1	20031002	US 2002-137454	20020503
US 7338805	B2	20080304		
EP 1383732	A1	20040128	EP 2002-740788	20020503
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CN 1518536	A	20040804	CN 2002-812490	20020503
CN 100509761	C	20090708		
JP 200502027	T	20050120	JP 2002-587401	20020503
JP 2009137954	A	20090625	JP 2008-301646	20081126
PRIORITY APPLN. INFO.:				
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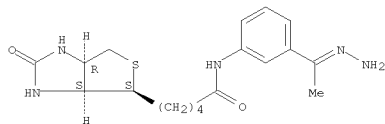
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 137:371372
 IT 475114-11-5P 475114-12-6P 475114-13-7P
 475114-14-8P 475114-64-8P
 RL: IMP (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; in production of indicator dyes for biomols. and nucleic

EXR: Michael Barker

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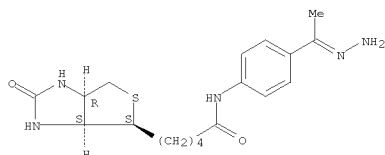
L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
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 N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-12-6 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

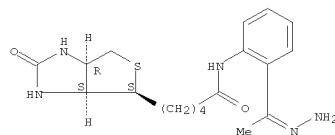
Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-13-7 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
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 INDEX NAME)

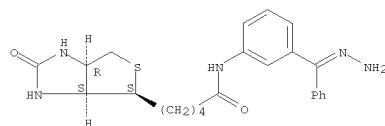
Absolute stereochemistry.
 Double bond geometry unknown.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



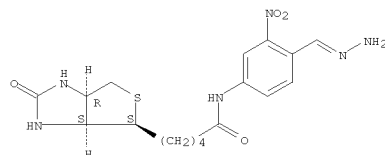
RN 475114-14-8 CAPLUS
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 N-[3-(hydrazinylidenephénylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-
 (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 475114-64-8 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
 (3aS,4S,6aR)- (CA INDEX NAME)

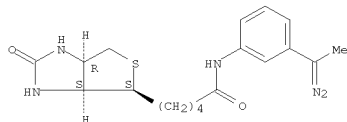
Absolute stereochemistry.
 Double bond geometry unknown.



IT 475114-15-9P 475114-16-0P 475114-17-1P

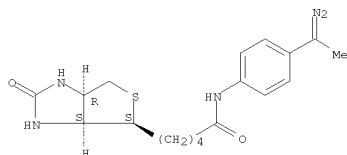
L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 475114-18-2P 475114-38-6P 475114-65-9P
 RL: IMP (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (prodn. of indicator dyes for biomols. and nucleic acids)
 RN 475114-15-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

Absolute stereochemistry.



RN 475114-16-0 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

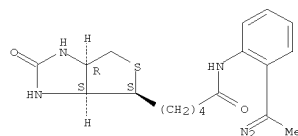
Absolute stereochemistry.



RN 475114-17-1 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

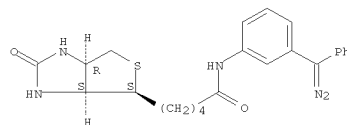
Absolute stereochemistry.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



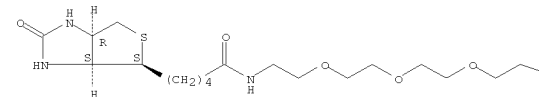
RN 475114-18-2 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
 NAME)

Absolute stereochemistry.



RN 475114-38-6 CAPLUS
 CN 3,6,9,12-Tetraoxa-15-azaicosanamide,
 N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-
 d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.



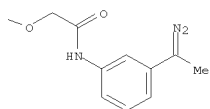
PAGE 1-A

EXR: Michael Barker

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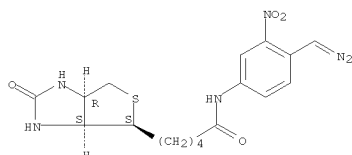
L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B



RN 475114-65-9 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

Absolute stereochemistry.

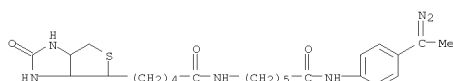


IT 475114-24-0
 RL: TEM (Technical or engineered material use); USES (Uses)
 (production of indicator dyes for biomols. and nucleic acids)
 RN 475114-24-0 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[2-(diazomethyl)-5-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
 INDEX NAME)

Absolute stereochemistry.

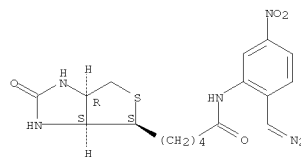
L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:745161 CAPLUS
 DOCUMENT NUMBER: 123:192722
 ORIGINAL REFERENCE NO.: 123:34197a,34200a
 TITLE: Fluorescence detection of DNA using a novel
 peroxidase
 substrate, 4-(4-hydroxyphenylcarbamoyl)butanoic acid
 AUTHOR(S): Shiga, Masanobu; Sasamoto, Kazumi; Aoyama, Masaaki;
 Takaqi, Makoto; Ueno, Keiyu
 CORPORATE SOURCE: Dojindo Laboratories, Tabaru Mashiki, Kumamoto,
 861-22, Japan
 SOURCE: Analytical Sciences (1995), 11(4), 591-5
 CODEN: ANSCEN; ISSN: 0910-6340
 PUBLISHER: Japan Society for Analytical Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 151261-26-6
 RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological
 study); RACT (Reactant or reagent); USES (Uses)
 (Fluorescence detection of DNA using a novel peroxidase substrate,
 4-(4-hydroxyphenylcarbamoyl)butanoic acid)
 RN 151261-26-6 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[6-[[4-(1-diazoethyl)phenyl]imino]-6-oxohexyl]hexahydro-2-oxo-,
 [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
 RECORD
 (1 CITINGS)

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

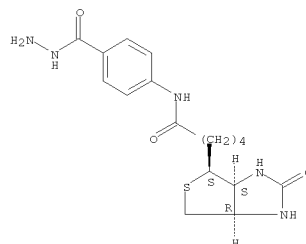


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS
 RECORD
 (4 CITINGS)
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:197115 CAPLUS
 DOCUMENT NUMBER: 122:27005
 ORIGINAL REFERENCE NO.: 122:5253a,5256a
 TITLE: Detection of oxidation products in individual neurons
 by fluorescence microscopy
 AUTHOR(S): Harris, Marni E.; Carney, John M.; Hua, Duy H.;
 Leedle, Robert A.
 CORPORATE SOURCE: College of Medicine, University of Kentucky,
 Lexington, KY, 40536-0084, USA
 SOURCE: Experimental Neurology (1994), 129(1), 95-102
 CODEN: EXNEAC; ISSN: 0014-4886
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 159661-00-4
 RL: BPR (Biological process); BSU (Biological study, unclassified); BUU
 (Biological use, unclassified); BIOL (Biological study); PROC (Process);
 USES (Uses)
 (detection of oxidation products in individual neurons by fluorescence
 microscopy)
 RN 159661-00-4 CAPLUS
 CN Benzoic acid, 4-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-
 oxopentyl]amino]-, hydrazide, [3aS-(3aα,4β,6aα)]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

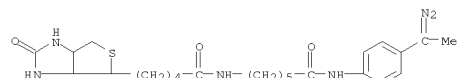


OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS
 RECORD
 (9 CITINGS)

EXR: Michael Barker

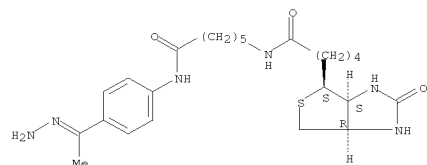
10590973

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1993:644871 CAPLUS
 DOCUMENT NUMBER: 119:244871
 ORIGINAL REFERENCE NO.: 119:43563a,43566a
 TITLE: Synthesis of a novel biotin derivative that bears a
 diazo group as the reactive site
 AUTHOR(S): Shiga, Masanobu; He, Pingang; Sagara, Fumio; Ueno,
 Keihei; Sasamoto, Kazumi
 CORPORATE SOURCE: Dojindo Lab., Kumamoto, 861-22, Japan
 SOURCE: Analytical Sciences (1993), 9(4), 553-6
 CODEN: ANSCEN; ISSN: 0910-6340
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 119:244871
 IT 151261-26-6P
 RL: PREP (Preparation)
 (preparation and DNA labeling by)
 RN 151261-26-6 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[6-[[[4-(1-diazoethyl)phenyl]imino]-6-oxohexyl]hexahydro-2-oxo-,
 [3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)



IT 151261-25-5P
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation of)
 RN 151261-25-5 CAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[6-[[[4-(1-hydrazonoethyl)phenyl]amino]-6-oxohexyl]hexahydro-2-oxo-,
 [3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS
 RECORD
 (2 CITINGS)

EXR: Michael Barker